

# Operation Principle

## Multi-function GPS Portable Navigation Device-82C

1. FM
  - a. Frequency Range : 88.1MHz ~ 107.9MHz
  - b. MCU control IIC to set FM frequency
  - c. 15.2MHz crystal
  - d. Power supply:3.3V
  - e. FM antenna is external antenna(Gain=-3dBi)
2. BT function
  - a. BC04 ROM
  - b. MCU configure BC04 by UART
  - c. Frequency: 2.402-2.480GHz
  - d. 26MHz crystal
  - e. Power supply:3.3V
  - f. Built-in antenna
3. GPS
  - a. Frequency : 1575.42MHz
  - b. MCU control SPI to configure GPS analog receive IC
  - c. 16.368MHz crystal
  - d. Power supply:3.3V
  - e. Built-in active ceramic antenna
4. Rear-View
  - a. AVIN
  - b. CVBS display mode
  - c. Power supply:2.5V or 1.8V